## IOWA DEPARTMENT OF TRANSPORTATION

To Office Bridges and Structures Date July 24, 2003

Attention All Employees Ref No. 521.1

From Gary Novey

Office Bridges and Structures

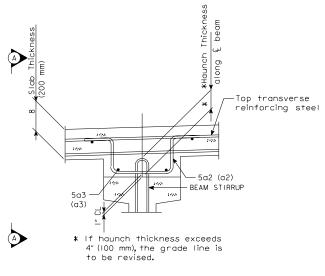
Subject MM No. 26 (Haunch Reinforcement for PCBM)

A request was made by the Construction Office to modify the details we use for haunch reinforcement for prestressed beam bridges. The current details in Article 5.3 "PPCB Bridges" of the Design Manual have a total width of the 5a2 (a2) of approximately 15.75 inches (395 mm). When the contractor places the a2 bars, they have had problems maintaining the bars in the proper position because the legs of the haunch reinforcement cannot reach the longitudinal bars in the slab (outside the width of the top flange).

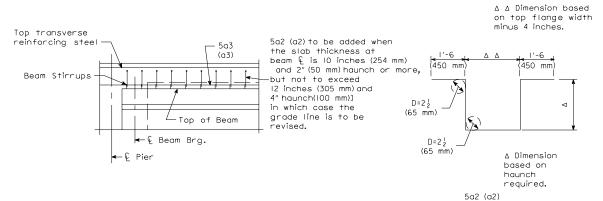
Therefore, to help with the placement of the bars, the a2 details were lengthened to allow the legs of the bar to be tied to the longitudinal bars in the top mat of reinforcing next to the beam. See attached details. Please provide this change on all projects where additional haunch steel is required and have not been turned in for letting.

When detailing prestressed beam bridges where the haunch in the midspan region is over the 2-inch maximum depth because of geometry and beam camber and option 1 or 2 of the design manual article 5.3 is to be used. Use option 1 and reinforce the beam haunch as noted below. Using this detail will allow the contractor more flexibility in the field if the beam camber does not meet the plan dimensions. Continue to use option 2 when the controlling haunch is at the beam ends rather than at the mid-span of the beam.

GAN:dgb:bj



## SECTION AT © PIER BEARING



SECTION A-A

## OPTION | DETAILS

PPCB Where haunch > 2" (50 mm)